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PTO/SB/21 (09-04)

JUL 20 2005

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/634,709
Filing Date	August 5, 2003
First Named Inventor	Bunker, et al
Art Unit	1624
Examiner Name	Deepak R. Rao
Attorney Docket Number	PC25236A

ENCLOSURES (Check all that apply)

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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name			
Signature	<i>Claude F. Purchase, Jr.</i>		
Printed name	Claude F. Purchase, Jr.		
Date	July 18, 2005	Reg. No.	47,871

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature	<i>Cicely M. Bohms</i>		
Typed or printed name	Cicely M. Bohms	Date	7/18/05

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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USPTO Fax No. 571-273-8300



PC25236A

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

APPLICATION NO. : 10/634,709 Confirmation No.: 7386
APPLICANT(S) : BUNKER, ET AL.
FILED : AUGUST 5, 2003
ART UNIT : 1624
EXAMINER : Deepak R. Rao
DOCKET NO. : PC25236A
CUSTOMER NO. : 28880

Commissioner for Patents
PO BOX 1450
Alexandria, VA 22313-1450
FAX: 571-273-8300

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Dear Sir:

This paper accompanies a submission of forms PTO/SB/08A and PTO/SB/08B for a second information disclosures statement (IDS) for U.S. Patent Application No. 10/634,709, filed August 5, 2003. Applicants believe that this paper is being filed before the mail date of the first Office Action under § 1.104. The Commissioner for Patents is hereby authorized to charge any payment of fees required for this communication, or credit any overpayment of fees, to deposit account 23-0455.

Remarks begin on page 2.

REMARKS

Consideration in accordance with 37 C.F.R. § 1.104(a) of the items listed on the enclosed forms PTO/SB/08A and PTO/SB/08B is respectfully requested. No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§102 or 103.

Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the enclosed Forms PTO/SB/08A and PTO/SB/08B, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication. It is respectfully requested that all cited references considered by the Examiner be listed in the "References Cited" portion of any patent issuing from this application (MPEP § 1302.12).

Respectfully submitted,

Date: July 18, 2005

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/634,709
Filing Date	August 5, 2003
First Named Inventor	Bunker, et al
Art Unit	1624
Examiner Name	Deepak R. Rao
Attorney Docket Number	PC25236A

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	1 ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
		WO-01/63244	08-30-2001	Chen, et al		
		WO-00/09485	02-24-2000	McClure, et al		
		WO-01/12611	02-22-2001	Blagg		
		WO-02/34726	05-02-2002	Noe, et al		
		WO02/34753	05-02-2002	Bronk, et al		
		EP-0935963	08-18-1999	McClure, et al		

Examiner Signature		Date Considered	
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Sheet	2	of	4
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		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)	MM-DD-YYYY			
		EP-1138680	10-04-2001	Noe, et al		
		CA-2,082,076	05-06-1993	Weidmann, et al		
		WO-01/12612	02-22-01	Hargreaves, et al		
		EP-0286364	07-13-94	Scherrer		

Date
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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				First Named Inventor	Bunker, et al
				Art Unit	1624
				Examiner Name	Deepak R. Rao
				Attorney Docket Number	PC25236A

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Billinghurst, et al, "Comparison of the Degradation of Type II Collagen and Proteoglycan in Nasal and Articular Cartilages Induced by Interleukin-1 and the Selective Inhibition of Type II Collagen Cleavage by Collagenase", Arthritis & Rheumatism, Vol. 43, No. 3 March 2000, pp.664-672.	
		Dahlberg, et al, "Selective Enhancement of Collagenase-Mediated Cleavage of Resident Type II Collagen in Cultured Osteoarthritic Cartilage and Arrest with a Synthetic Inhibitor That Spares Collagenase I (Matrix Metalloproteinase 1)", Arthritis & Rheumatism, Vol. 43, No. 3, March 2000 pp. 673-682.	
		Freemont, et al, "In situ zymographic localisation of type II collagen degrading activity in osteoarthritic human articular cartilage", Ann. Rheum. Dis. 1999, 58, pp.357-365.	
		Hirota, et al, "Novel Synthesis of Pyrido[3,4-d]Pyrimidines, Pyrido[2,3-d]-Pyrimidines and Quinazolones via Palladium-Catalyzed Oxidative Coupling", Heterocycles, Vol. 37, No. 1, 1994 pp.563-570.	
		Reboul, et al, "The New Collagenase, Collagenase-3, Is Expressed and Synthesized by Human Chondrocytes but not by Synoviocytes", J. Clin. Invest. Vol. 97, No. 9, May 1996 pp.2011-2019.	
		Wernicke, et al, "Cloning of Collageanse 3 from the Synovial Membrane and Its Expression In Rheumatoid Arthritis and Osteoarthritis", J. of Rheumatology, 1996, Vol. 23, No. 4, pp.590-595.	
		Chen, et al, "Structure-Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", J. Am. Chem. Soc., 2000, Vol. 122, pp. 9648-9654.	
		Billinghurst, et al, "Enhanced Cleavage of Type II Collagen by Collagenase in Osteoarthritic Articular Cartilage", J. Clin. Invest., Vol. 99, No. 7, April 1997, pp.1534-1545.	
		Lovejoy, et al, "Crystal structures of MMP-1 and -13 reveal the structural basis for selectivity of collagenase inhibitors", Nature Structural Biology, Vol. 6, No. 3, March 1999, pp.217-221.	
		Moy, et al, "High-resolution Solution Structure of the Catalytic Fragment of Human Collagenase-3 (MMP-13) Complexed with a Hydroxamic Acid Inhibitor", J. Mol. Biol., 2000, Vol. 302, pp. 671-689.	

Examiner Signature	Date Considered
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Sheet	4	of	4
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		Office Action mailed June 16, 2003, in U.S. 10/264,764	
		Neuhold, et al, "Postnatal expression in hyaline cartilage of constitutively active human collagenase-3 (MMP-13) induces osteoarthritis in mice" J. Clin. Invest. January 2001, Vol. 107, No. 1 pp.35-44.	
		Mitchell, et al, "Cloning, Expression, and Type II Collagenolytic Activity of Matrix Metalloproteinase-13 from Human Osteoarthritic Cartilage", J. Clin. Invest., Vol. 97, No. 3, February 1996 pp.761-768.	
		International Search Report in PCT/IB03/03616	
		Chemical Abstracts Nakayama, et al, "Preparation of 2-ethynylthiazole derivatives as leukotriene antagonists" AN 129:189329	

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